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1 [Web services: Web services enterprise security architecture: a case study](#)



Carlos Gutiérrez, Eduardo Fernández-Medina, Mario Piattini

 November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**

Publisher: ACM Press

 Full text available: pdf(341.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web Services (WS hereafter) Security is a crucial aspect for technologies based on this paradigm to be completely adopted by the industry. As a consequence, a lot of initiatives of initiatives have arisen during the last years setting as their main purpose the standardization of the security factors related to this paradigm. In fact, over the past years, the most important consortiums of Internet Internet, like IETF, W3C or OASIS, are producing a huge number of WS-based security standards. Desp ...

Keywords: security, software architecture, software development process, web services

2 [Web technologies and applications \(WTA\): Migration to web services oriented architecture: a case study](#)



Jia Zhang, Jen-Yao Chung, Carl K. Chang

 March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**

Publisher: ACM Press

 Full text available: pdf(159.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid emerging of web-services technology is dramatically changing the scenario of web application design and development. This paper presents a web-services oriented architecture. As a case study, the paper reports on an on-going project on the design and development of a pass-through authentication web-services for on-line electronic payment applications. This is a first step towards an electronic payment web-service.

Keywords: Web application development, case study, software architecture, web services oriented architecture

3 [Process modeling in Web applications](#)



Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu

 October 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

Keywords: Web applications, Web engineering, conceptual modeling, workflows


4 Engineering web cache consistency



Jian Yin, Lorenzo Alvisi, Mike Dahlin, Arun Iyengar

August 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available:  pdf(403.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Server-driven consistency protocols can reduce read latency and improve data freshness for a given network and server overhead, compared to the traditional consistency protocols that rely on client polling. Server-driven consistency protocols appear particularly attractive for large-scale dynamic Web workloads because dynamically generated data can change rapidly and unpredictably. However, there have been few reports on engineering server-driven consistency for such workloads. This article repo ...

Keywords: Cache coherence, cache consistency, dynamic content, lease, scalability, volume

5 Model-based functional conformance testing of web services operating on persistent data



Avik Sinha, Amit Paradkar

July 2006 **Proceedings of the 2006 workshop on Testing, analysis, and verification of web services and applications TAV-WEB '06**

Publisher: ACM Press

Full text available:  pdf(176.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a model based approach to functional conformance test generation for web services which operate in the presence of persistent data. Typically, web services are described in a standard notation called Web Services Description Language (WSDL). Unfortunately, WSDL standard does not allow behavioral specification (such as pre- and postconditions) of web services in the presence of persistent data. New standards which remedy this situation are being proposed (such as WSDL-S). In this paper, ...

6 Workshop on testing, analysis and verification of web services (TAV-WEB) papers:



Modelling and verifying web service orchestration by means of the concurrency workbench

Mariya Koshkina, Franck van Breugel

September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Publisher: ACM Press

Full text available:  pdf(239.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Verification techniques like model checking, preorder checking and equivalence checking are shown to be relevant to web service orchestration. The Concurrency Workbench of the New Century (CWB) is a verification tool that supports these verification techniques. By

means of the Process Algebra Compiler (PAC), the CWB is modified to support the BPE-calculus. The BPE-calculus is a small language, based on BPEL4WS, to express web service orchestration. Both the syntax and the semantics of the BPE-ca ...


Keywords: BPEL4WS, business process, concurrency workbench of the new century, modelling, process algebra compiler, verification, web service

7 The Web Service Discovery Architecture

Wolfgang Hoschek

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(282.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid applications can use this architecture to discover and adapt to remote services. WSDA promotes an interoperable web service discovery layer by defining appropriate services, interfaces, operations and protocol bindings, based on industry standards. It is unified because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is modular because it def ...


8 Service requirements and design methodology: Pitfalls of OWL-S: a practical semantic web use case



Steffen Balzer, Thorsten Liebig, Matthias Wagner

November 2004 **Proceedings of the 2nd international conference on Service oriented computing ICSOC '04**

Publisher: ACM Press

Full text available:  [pdf\(872.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

OWL-S is a combined effort of the Semantic Web and the Web Service community to facilitate an intelligent service provisioning on the Semantic Web. The vision of OWL-S includes automatic service discovery, invocation, composition, orchestration and monitoring of Web-Services through their semantic descriptions. In this paper, we investigate the practical applicability of the current OWL-S specification and show that, in spite of the large momentum of OWL-S, significantly more work needs to be ...

Keywords: OWL-S, semantic web services

9 Business-to-business e-commerce track: Website optimization with web metrics: a case study



Birgit Weischedel, Eelko K. R. E. Huizingh

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available:  [pdf\(395.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web metrics are the measures that reflect how customers are using a website. Companies use these metrics for further improvement of their website. Although most companies today are engaged in website optimization, the actual use of web metrics is a relatively unexplored area. In this paper we address this topic by first reviewing the strengths and weaknesses of the most important source of web metrics (web logs) and then conducting

an extensive case study. The literature review revealed a number ...

Keywords: case study, clickstream data, measures, server log, web metrics, website optimization

10 Design and evaluation of a conit-based continuous consistency model for replicated services



Haifeng Yu, Amin Vahdat

August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3

Publisher: ACM Press

Full text available: pdf(406.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency guarantees or none at all. This paper explores the semantic space between traditional strong and optimistic consistency models for replicated services. We argue that an important class of applications can tolerate relaxed consistency, but benefit from bounding the maximum rate of inconsistent access ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

11 Innovation, management & strategy: A web-based consumer-oriented intelligent decision support system for personalized e-services



Chien-Chih Yu

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: pdf(479.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Due to the rapid advancement of electronic commerce and web technologies in recent years, the concepts and applications of decision support systems have been significantly extended. One quickly emerging research topic is the consumer-oriented decision support system that provides functional supports to consumers for efficiently and effectively making personalized decisions. In this paper we present an integrated framework for developing web-based consumer-oriented intelligent decision support sy ...

Keywords: decision making process, e-services, intelligent decision support system, personalization

12 Session 2: A privacy controller approach for privacy protection in web services

George O. M. Yee

November 2007 **Proceedings of the 2007 ACM workshop on Secure web services SWS '07**

Publisher: ACM

Full text available: pdf(300.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The growth of the Internet has been accompanied by the growth of web services (e.g. e-commerce, e-health). This increased use of web services has meant that more and more user personal information is being shared with web service providers, leading to the need to protect the privacy of web service users, as evidenced by the enactment of privacy legislation in many jurisdictions. Existing privacy policy approaches for privacy protection, such as making the service provider's privacy policy kno ...

Keywords: privacy controller, privacy protection, user privacy policy, web services

13 Cache architecture for on-demand streaming on the Web



Raj Sharman, Shiva Shankar Ramanna, Ram Ramesh, Ram Gopal

September 2007 **ACM Transactions on the Web (TWEB)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(768.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

On-demand streaming from a remote server through best-effort Internet poses several challenges because of network losses and variable delays. The primary technique used to improve the quality of distributed content service is replication. In the context of the Internet, Web caching is the traditional mechanism that is used. In this article we develop a new staged delivery model for a distributed architecture in which video is streamed from remote servers to edge caches where the video is buff ...

Keywords: Web caching, buffering, edge cache, on-demand streaming, quality of service, selective retransmissions

14 Service composition: Mixed initiative use cases for semi-automated service



composition: a survey

Jan Schaffner, Harald Meyer

May 2006 **Proceedings of the 2006 international workshop on Service-oriented software engineering SOSE '06**

Publisher: ACM Press

Full text available: pdf(161.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Semi-automated service composition with mixed initiative interactions, where both user and machine jointly contribute to the creation of composed services, is currently subject to intensive research. In this paper, we give an overview over recent research approaches by presenting three different semi-automated service composition tools. As the main contribution of this paper, we introduce three mixed initiative use cases characteristic for semi-automated composition, which we have extracted and ...

Keywords: business process management, mixed initiative, semi-automated, service composition, web service

15 Web services: composition, integration and interoperability: Adaptive resource sharing in a web services environment

Vijay K. Naik, Swaminathan Sivasubramanian, Sriram Krishnan

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(266.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

One effect of the push towards business process automation and IT consolidation is that low-level resources from multiple administrative domains are shared among multiple workloads and the middleware is called upon to bring about the integration while masking the details of sharing such resources. Web services and grid based technologies hold promise for developing such middleware. However, existing solutions do not extend well when resources to be shared belong to multiple administrative domain ...

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Using Web Service Technologies to Create an Information Broker: An Experience

Report

Mark Turner, Fujun Zhu, Ioannis Kotsiopoulos, Michelle Russell, David Budgen, Keith Bennett, Pearl Brereton, John Keane, Paul Layzell, Michael Rigby

May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

Publisher: IEEE Computer Society

Full text available:  pdf(305.99 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper reports on our experiences with using the emerging web service technologies and tools to create a demonstration information broker system as part of our research into information management in a distributed environment. To provide a realistic context we chose to study the use of information in the healthcare domain, and this context sets some challenging parameters and constraints for our research and for the demonstration system. In this paper we both report on the extent to which existing we ...

17 Web and e-business application: Application run time estimation: a quality of service metric for web-based data mining services 

Shonali Krishnaswamy, Seng Wai Loke, Arkady Zaslavsky

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

Full text available:  pdf(685.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The emergence of Application Service Providers (ASP) hosting Internet-based data mining services is being seen as a viable alternative for organisations that value their knowledge resources but are constrained by the high cost of data mining software. Response time is an important Quality of Service (QoS) metric for web-based data mining service providers. The ability to estimate the response time of data mining algorithms a priori benefits both clients and service providers. The advantage for th ...


Keywords: application run time estimation, data mining e-services, quality of service, rough sets

18 DOS protection: Using graphic turing tests to counter automated DDoS attacks against web servers 

William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**

Publisher: ACM Press

Full text available:  pdf(256.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WebSOS, a novel overlay-based architecture that provides guaranteed access to a web server that is targeted by a denial of service (DoS) attack. Our approach exploits two key characteristics of the web environment: its design around a human-centric interface, and the extensibility inherent in many browsers through downloadable "applets." We guarantee access to a web server for a large number of *previously unknown* users, without requiring pre-existing trust relationships between ...

Keywords: Java, graphic turing tests, web proxies

19 Providing a holistic perspective to evaluating e-service quality in web-based systems: a multi-stakeholder approach 

Herschel Nomdoe, Shaun Pather



October 2007 **Proceedings of the 2007 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries SAICSIT '07**

Publisher: ACM Press

Full text available: pdf(140.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Over a period spanning approximately twenty five years IS researchers have been plagued by the problem of how to evaluate IS effectiveness or success. After the advent of the WWW in the 1990s, questions have arisen regarding the relevance of previously established evaluation approaches to the evaluation of web-based IS. In this paper, we describe a holistic approach to Information Systems (IS) evaluation, focusing on web-based applications. In this context, a holistic perspective refers to a ...

Keywords: IS effectiveness, IS evaluation, IS stakeholder, IS success, e-SQ, electronic service quality, information systems, service quality, web

20 Principled design of the modern Web architecture



Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(335.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

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